

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P969965

Luminaire Tested: **NVN-SB6A-827-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6A-827-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

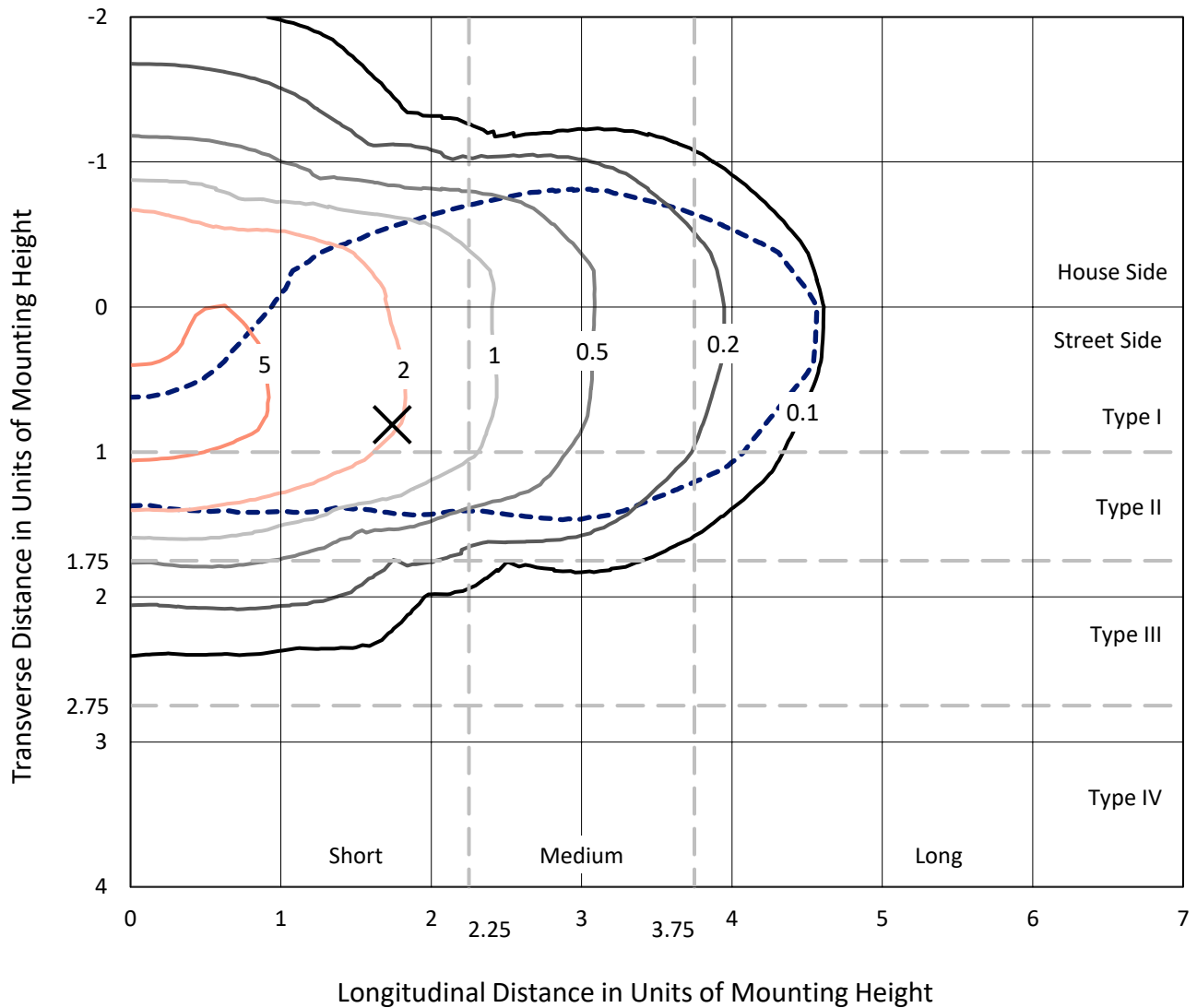
Lumens per Lamp: N/A  
Luminaire Lumens: 24570.3 lumens  
Efficiency: N/A  
Efficacy: 143.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

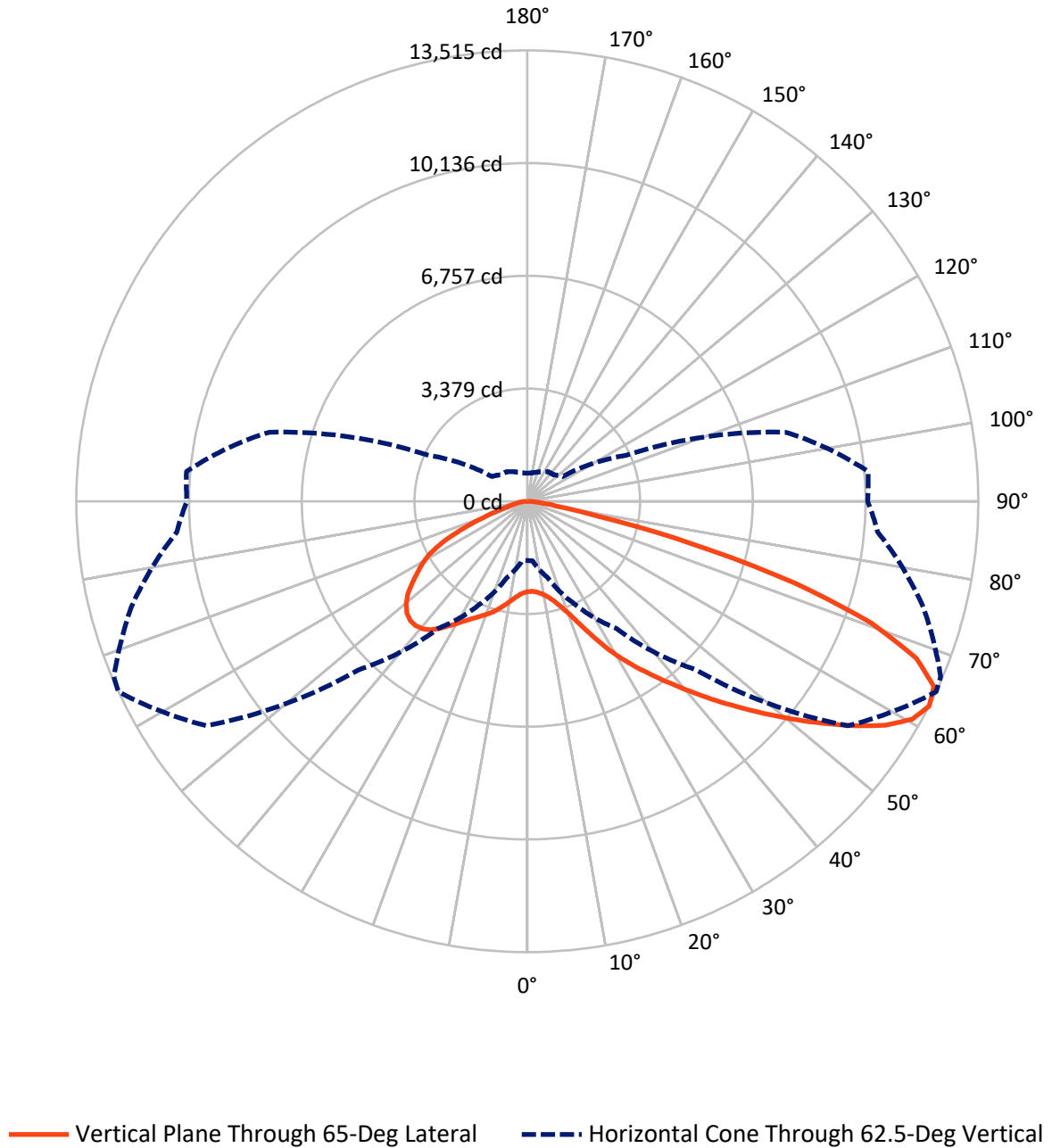
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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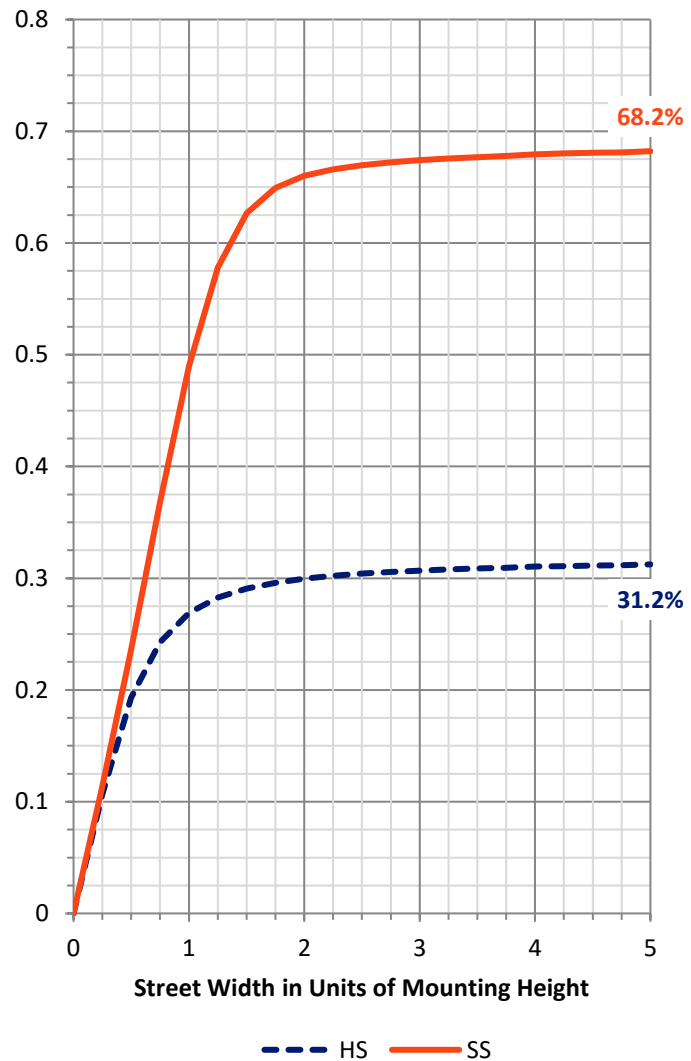
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7753.3	0.0	7753.3
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	16817.0	0.0	16817.0
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	24570.3	0.0	24570.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.9	1.1
10°-20°	915.4	3.7
20°-30°	1856.0	7.6
30°-40°	3211.8	13.1
40°-50°	4860.5	19.8
50°-60°	5698.6	23.2
60°-70°	4777.6	19.4
70°-80°	2637.6	10.7
80°-90°	342.6	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	24570.3	100.0
0°-180°	24570.3	100.0



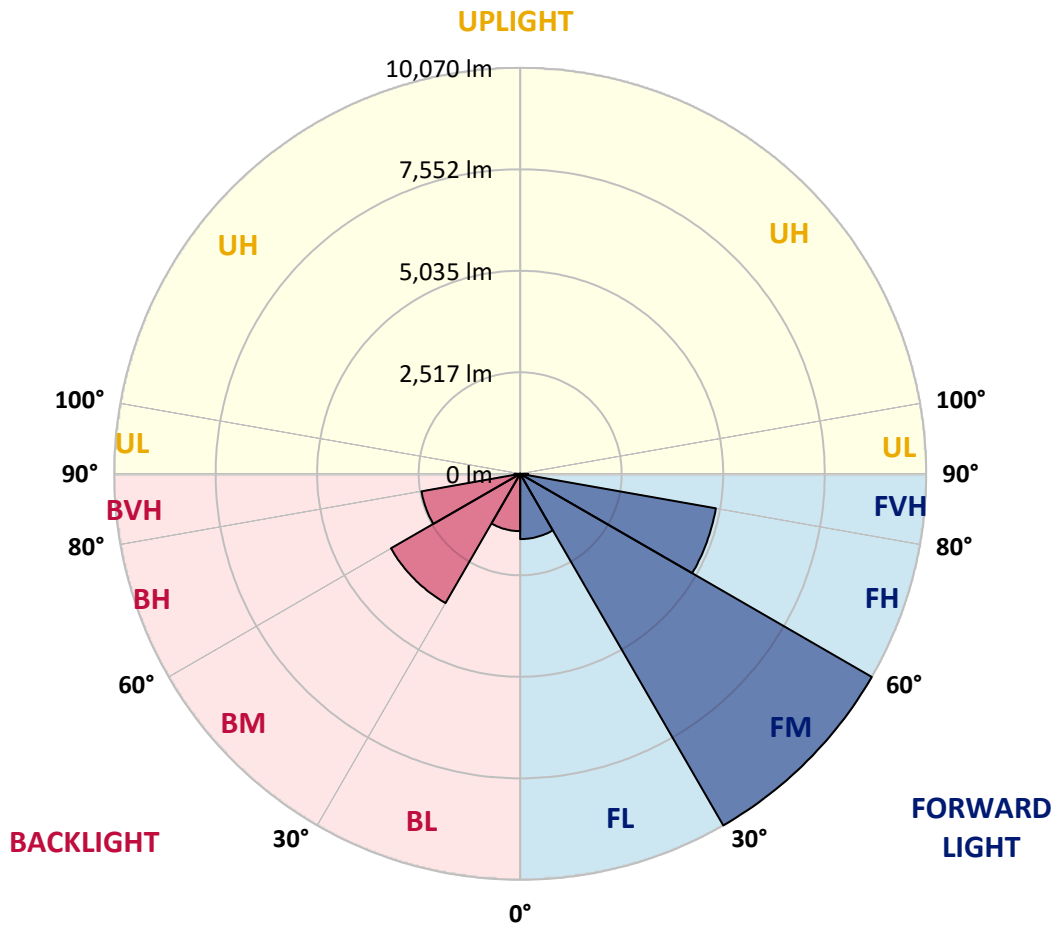
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1619.5	6.6			
FM (30°-60°)	10069.7	41.0			
FH (60°-80°)	4928.1	20.1			G2/5000
FVH (80°-90°)	199.7	0.8			G2/225
BL (0°-30°)	1421.9	5.8	B3/2500		
BM (30°-60°)	3701.3	15.1	B3/5000		
BH (60°-80°)	2487.2	10.1	B3/2500		G3/2500
BVH (80°-90°)	142.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5
2.5°	2689.7	2682.0	2688.4	2688.4	2690.9	2689.7	2698.6	2701.2	2705.0	2712.7	2712.7
5°	2663.0	2661.6	2673.1	2683.3	2693.5	2702.4	2713.9	2730.5	2733.1	2742.0	2753.5
7.5°	2654.0	2646.3	2664.2	2677.0	2701.2	2722.8	2753.5	2781.4	2792.9	2796.8	2818.4
10°	2722.8	2710.1	2726.7	2734.3	2754.7	2776.4	2812.1	2856.7	2869.4	2884.8	2909.0
12.5°	2840.1	2826.1	2850.3	2861.8	2880.9	2900.0	2924.2	2967.6	2973.9	3002.0	3025.0
15°	3000.7	2984.2	2999.5	3013.5	3045.4	3063.2	3087.4	3129.4	3129.4	3151.2	3167.8
17.5°	3218.7	3197.1	3208.6	3213.6	3234.0	3260.7	3301.5	3338.5	3357.7	3350.0	3327.0
20°	3543.7	3517.0	3517.0	3491.5	3483.9	3505.5	3559.1	3610.0	3630.4	3590.9	3534.8
22.5°	4031.9	3993.7	3972.1	3885.4	3850.9	3853.5	3907.1	3969.5	3986.1	3916.0	3789.8
25°	4652.8	4592.9	4563.5	4436.1	4358.3	4290.8	4332.8	4413.1	4436.1	4349.4	4145.4
27.5°	5273.6	5277.4	5249.3	5096.4	4967.7	4843.9	4822.3	4906.5	4930.7	4832.6	4580.1
30°	6144.3	6053.8	6000.1	5816.6	5633.1	5459.7	5370.5	5404.9	5411.3	5294.0	5000.8
32.5°	6895.1	6872.1	6757.4	6596.8	6360.9	6089.4	5940.3	5885.4	5875.3	5708.2	5360.2
35°	7750.4	7737.6	7616.6	7425.3	7170.4	6793.1	6524.1	6367.3	6354.6	6120.0	5715.9
37.5°	8619.7	8619.7	8501.2	8292.1	8028.3	7556.6	7147.4	6898.9	6858.1	6552.1	6077.9
40°	9313.3	9271.1	9292.9	9204.9	8902.7	8401.8	7839.6	7478.9	7424.1	7056.9	6462.9
42.5°	9707.2	9693.1	9823.1	9921.3	9797.6	9397.3	8601.9	8107.3	8030.9	7612.7	6906.6
45°	9795.1	9779.7	10011.8	10371.3	10544.6	10380.2	9430.5	8768.9	8675.8	8194.0	7381.9
47.5°	9592.4	9561.8	9902.1	10469.3	11025.2	11314.6	10327.9	9486.6	9351.5	8760.0	7870.3
50°	8983.1	8953.8	9468.7	10222.1	11187.1	11949.3	11301.8	10247.6	10041.1	9366.8	8363.5
52.5°	7658.6	7672.6	8479.5	9514.7	10974.2	12344.6	12140.6	11049.4	10800.8	9987.6	8826.3
55°	5965.8	5996.4	6988.1	8127.7	10122.7	12284.6	12713.0	11875.4	11628.1	10571.3	9304.3
57.5°	4271.7	4406.8	5336.0	6464.2	8487.2	11335.0	12837.8	12660.7	12421.1	11208.8	9772.1
60°	2768.7	2792.9	3749.0	4886.1	6462.9	9647.2	12584.2	13256.0	13068.5	11858.8	10163.5
62.5°	1774.5	1791.0	2373.6	3417.6	4651.6	7137.3	11730.1	13514.7	13457.4	12288.4	10539.6
65°	1304.0	1291.3	1594.7	2258.8	3133.3	4401.7	10071.6	13389.8	13503.2	12557.4	10850.5
67.5°	1088.7	1070.8	1220.0	1564.1	2308.5	2499.8	7452.1	12577.8	12993.4	12526.8	11078.7
70°	991.8	976.4	1066.9	1161.3	1801.2	1673.7	3756.6	10934.7	11574.6	12178.8	11041.7
72.5°	840.1	813.2	937.0	1031.3	1401.0	1283.6	1552.7	8399.3	9179.4	11063.4	10521.6
75°	651.4	633.6	739.3	907.6	1053.0	1001.9	981.5	5100.2	5951.8	8556.0	9204.9
77.5°	516.3	492.0	589.0	707.5	947.1	755.9	715.1	2196.4	3040.3	5462.2	6887.4
80°	388.8	367.2	447.4	559.6	727.9	569.8	462.7	896.2	1145.9	2767.5	3463.5
82.5°	276.6	257.5	312.3	410.5	489.5	511.2	284.2	502.2	564.7	1066.9	773.8
85°	177.2	165.7	209.1	257.5	311.0	328.9	173.3	262.6	288.1	439.8	322.5
87.5°	96.9	79.0	112.1	119.8	144.0	131.3	82.8	95.6	103.2	159.4	136.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5
2.5°	2717.7	2721.6	2734.3	2738.1	2747.1	2758.5	2766.2	2773.9	2773.9	2781.4	2781.4
5°	2754.7	2763.6	2790.4	2804.4	2827.4	2850.3	2864.4	2880.9	2891.1	2896.2	2898.7
7.5°	2826.1	2840.1	2878.3	2902.6	2942.1	2973.9	2995.7	3018.5	3023.6	3037.7	3032.6
10°	2923.0	2939.5	2982.9	3028.8	3075.9	3115.5	3135.9	3152.4	3158.8	3161.3	3155.0
12.5°	3033.9	3058.1	3114.2	3170.2	3219.9	3254.4	3259.5	3255.7	3237.9	3222.5	3222.5
15°	3170.2	3192.0	3254.4	3315.6	3364.0	3370.4	3338.5	3318.1	3296.5	3292.6	3292.6
17.5°	3333.4	3344.9	3402.3	3462.1	3466.0	3444.3	3397.2	3378.1	3357.7	3343.7	3344.9
20°	3523.3	3519.5	3560.3	3585.9	3559.1	3492.8	3421.3	3389.5	3369.2	3352.6	3353.8
22.5°	3750.3	3721.0	3715.8	3709.5	3638.1	3499.1	3402.3	3361.5	3329.6	3306.6	3314.3
25°	4080.4	3968.3	3890.5	3847.1	3686.5	3464.7	3341.1	3250.6	3190.6	3151.2	3166.4
27.5°	4493.4	4304.8	4108.5	4002.6	3686.5	3394.6	3193.2	3046.6	2948.4	2907.7	2928.1
30°	4887.3	4689.8	4400.4	4190.1	3677.6	3279.9	2954.9	2750.9	2636.2	2595.4	2619.6
32.5°	5223.9	5008.5	4710.2	4395.3	3656.0	3093.8	2659.1	2433.5	2322.5	2274.2	2298.4
35°	5536.1	5306.7	5021.2	4620.9	3598.6	2821.0	2334.0	2161.9	2038.3	1960.5	1986.0
37.5°	5856.1	5583.4	5315.6	4824.9	3495.4	2502.3	2084.2	1937.6	1792.3	1687.8	1715.7
40°	6204.1	5877.8	5630.5	4945.9	3325.8	2198.9	1890.4	1756.5	1602.4	1491.5	1513.1
42.5°	6610.7	6230.9	5981.1	5008.5	3093.8	1983.5	1764.2	1632.9	1487.6	1397.1	1414.9
45°	7035.3	6619.7	6301.0	5007.1	2835.0	1882.8	1723.4	1593.5	1432.8	1338.4	1353.8
47.5°	7480.1	7026.4	6577.6	4925.5	2610.7	1896.8	1700.5	1508.0	1330.9	1239.0	1251.8
50°	7926.3	7471.2	6845.4	4772.6	2515.0	1866.2	1615.1	1388.2	1179.2	1096.2	1101.4
52.5°	8368.6	7944.2	7076.1	4554.6	2418.2	1752.7	1505.4	1232.7	1116.6	1059.3	1059.3
55°	8813.6	8412.0	7327.2	4237.2	2176.0	1620.2	1321.9	1174.0	1066.9	1014.6	1009.6
57.5°	9259.6	8952.5	7565.5	3919.8	1871.3	1457.0	1221.2	1102.7	1017.2	972.6	964.9
60°	9723.7	9570.7	7811.6	3627.9	1570.5	1247.9	1147.3	1045.3	958.6	908.9	905.1
62.5°	10201.7	10251.4	8004.0	3251.8	1293.9	1120.5	1081.0	976.4	892.4	845.1	843.9
65°	10683.6	10907.9	8130.3	2730.5	1049.1	999.4	1009.6	901.3	815.8	775.0	773.8
67.5°	11046.8	11380.9	8094.5	2066.3	860.5	884.7	920.3	822.3	741.9	710.0	711.3
70°	11087.6	11324.7	7742.7	1414.9	720.3	772.4	820.9	744.5	661.6	638.7	639.9
72.5°	10544.6	10559.9	6762.4	924.1	609.4	678.1	716.4	665.4	585.1	562.1	560.9
75°	9120.8	8733.2	4965.1	609.4	509.9	582.5	618.3	582.5	504.8	509.9	492.0
77.5°	6910.3	6185.1	3014.7	433.4	425.8	489.5	537.9	512.4	446.2	501.0	441.1
80°	3560.3	3346.2	1344.8	323.8	336.5	391.3	442.3	409.2	353.1	336.5	307.2
82.5°	815.8	948.4	530.3	232.0	243.4	281.7	337.8	307.2	253.7	214.1	211.6
85°	285.6	312.3	234.5	145.3	142.8	175.9	229.5	205.2	172.1	137.7	145.3
87.5°	90.5	118.6	87.9	58.6	61.2	79.0	105.8	96.9	80.3	52.3	54.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)